

PATENT APPLICATION

11324 U.S.PTO
122203

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No: 20063/100084

22264 U.S.PTO
10/743629

122203

PATENT APPLICATION TRANSMITTAL UNDER 37 C.F.R. 1.53

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing is the patent application of

Inventor: **Ki Min LEE**

Title: "Methods of Preventing Oxidation of Barrier Metal of Semiconductor Devices"

1. Type of Application

- This is a new application for a
- utility patent.

2. Application Papers Enclosed

- 1 Title Page
- 4 Pages of Specification
(excluding Claims, Abstract, Sequence Listing & Drawings)
- 2 Pages of Claims
- 1 Page of Abstract
- 2 Sheets of Drawings (FIGS. 1A to 1D)

Formal

Informal

CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this Patent Application Transmittal and the documents referred to as enclosed therewith are being deposited with the United States Postal Service on **December 22, 2003** in an envelope addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 utilizing the "Express Mail Post Office to Addressee" service of the United States Postal Service under Mailing Label No. **EL 995 293 045 US**.


Charissa Wheeler

3. Declaration or Oath

Enclosed

Executed by (check all applicable boxes)

Inventor(s)

Legal representative of inventor(s)
(37 CFR 1.42 or 1.43)

Joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.

The petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 are enclosed.
See Item 5D below for fee.

Not enclosed - the undersigned attorney or agent is authorized to file this application on behalf of the applicant(s). An executed declaration will follow.

4. Small Entity Status

Applicant claims small entity status. See 37 CFR 1.27.

A small entity statement is(are) attached.

5. Additional Papers Enclosed

Preliminary Amendment

Information Disclosure Statement

Declaration of Biological Deposit

Computer readable copy of sequence listing containing nucleotide and/or amino acid sequence

Microfiche computer program

Associate Power of Attorney

Verified translation of a non-English patent application

An assignment of the invention

Request and Certification Under 35 U.S.C. 122(b)(2)(B)(i)

Return receipt postcard

Other

6. Priority Applications Under 35 USC 119

Certified copies of applications from which priority under 35 USC 119 is claimed are listed below and

are attached.
 will follow.

COUNTRY	APPLICATION NO.	FILED
Republic of Korea	10-2002-0087369	30 December 2002

7. Filing Fee Calculation (37 CFR 1.16)

A. Utility Application

CLAIMS AS FILED - INCLUDING PRELIMINARY AMENDMENT(S) (IF ANY)						
			SMALL ENTITY		OTHER THAN A SMALL ENTITY	
	NO. FILED	NO. EXTRA	RATE	Fee	RATE	Fee
BASIC FEE				\$385.00		\$770.00
TOTAL	8 - 20	= 0	X 9 =	\$	X 18 =	\$0.00
INDEP.	1 - 3	= 0	X 43 =	\$	X 86 =	\$0.00
First Presentation of Multiple Dependent Claim			+ 145 =	\$	+ 290 =	\$0.00
Filing Fee:				\$	OR	\$770.00

B. Design Application (\$170.00/\$340.00) Filing Fee: \$0.00
C. Plant Application (\$265.00/\$530.00) Filing Fee: \$0.00
D. Other Fees
 Recording Assignment [Fee — \$40.00 per assignment] \$0.00
 Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached [Fee — \$130.00] \$0.00
 Other \$0.00

Total Fees Enclosed \$770.00

8. Method of Payment of Fees

Enclosed check in the amount of: \$770.00

Charge Deposit Account No. 50-2455 in the amount of: \$0.00
A copy of this Transmittal is enclosed.

Not enclosed

9. Deposit Account and Refund Authorization

The Commissioner is hereby authorized to charge any deficiency in the amount enclosed or any additional fees which may be required during the pendency of this application under 37 CFR 1.16 or 37 CFR 1.17 or under other applicable rules (except payment of issue fees), to Deposit Account No. 50-2455. A copy of this Transmittal is enclosed.

Please refund any overpayment to Grossman & Flight LLC at the address below.

10. Correspondence Address

Respectfully submitted,

GROSSMAN & FLIGHT LLC
20 North Wacker Drive
Suite 4220
Chicago, Illinois 60606-6357
(312) 580-1020
(312) 580-9696 (Telefacsimile)

By:



Mark C. Zimmerman
Registration No.: 44,006

December 22, 2003